

A cross-sectional view of a semiconductor device. A substrate 2 is shown at the bottom. Above it is a layer 3, which contains a patterned region 14. Above layer 3 is a thin layer 4. A wavy interface 5 separates layer 4 from a layer 6. Two rectangular regions 7 are located on the wavy interface 5. A coordinate system is shown in the upper left with a vertical z-axis and a horizontal x-axis. Dashed lines 8 and 9 represent internal structures or interfaces. A label 10 points to a region within the substrate 2.

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 1 of 29

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 2 of 29

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 3 of 29

20250303 13:55:00

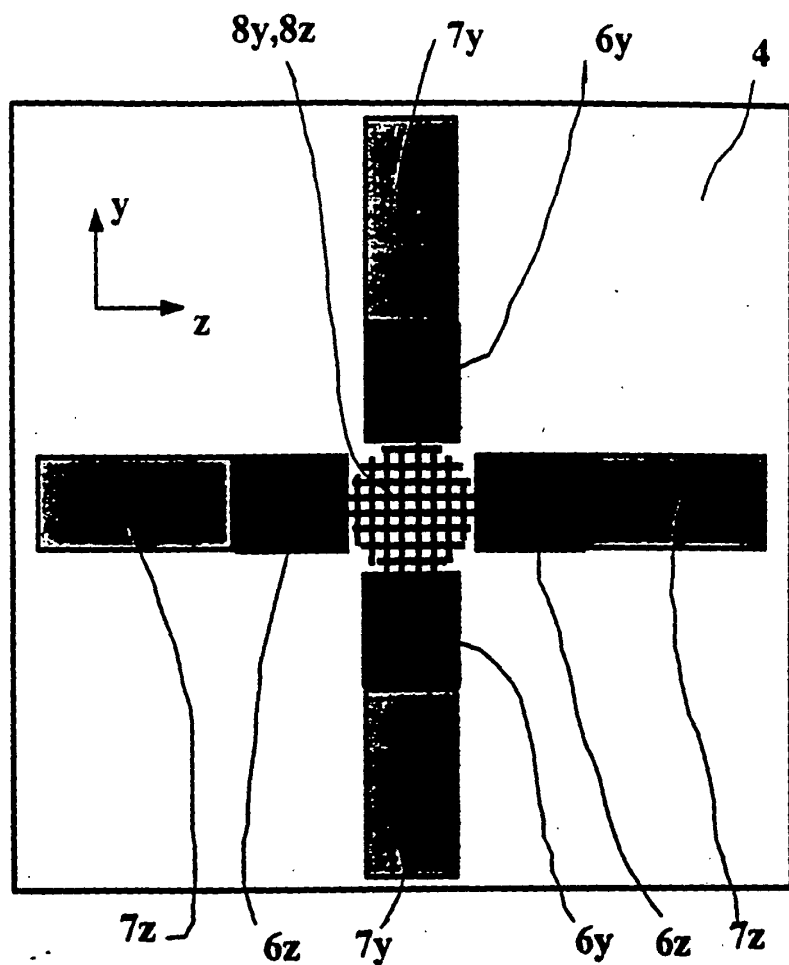


Figure 2B

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 4 of 29

10052667 030702

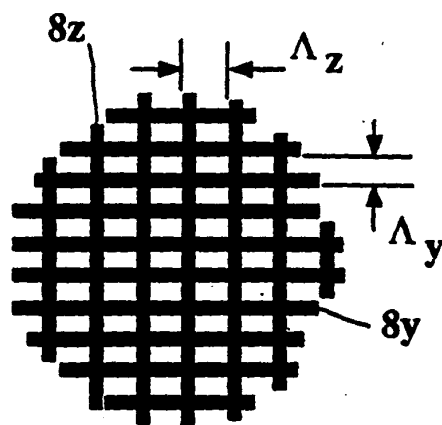


Figure 2C

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 5 of 29

20250709 10:00:00

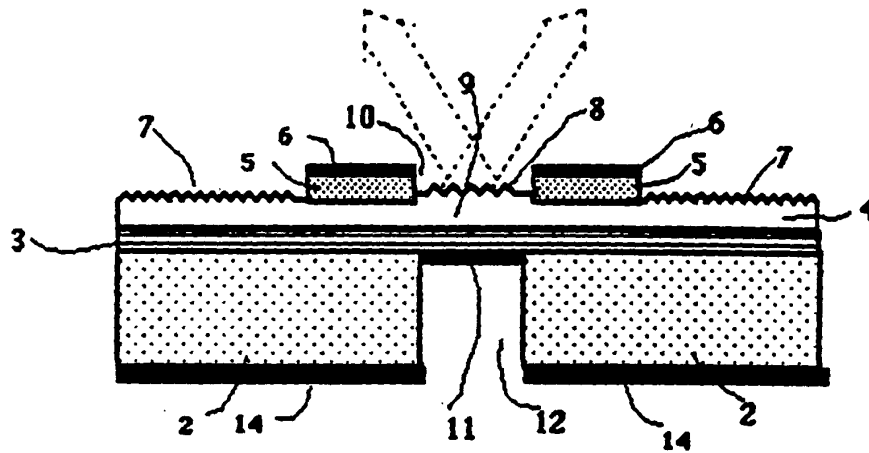


Figure 3

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 6 of 29

10033003 BPHOTO.003

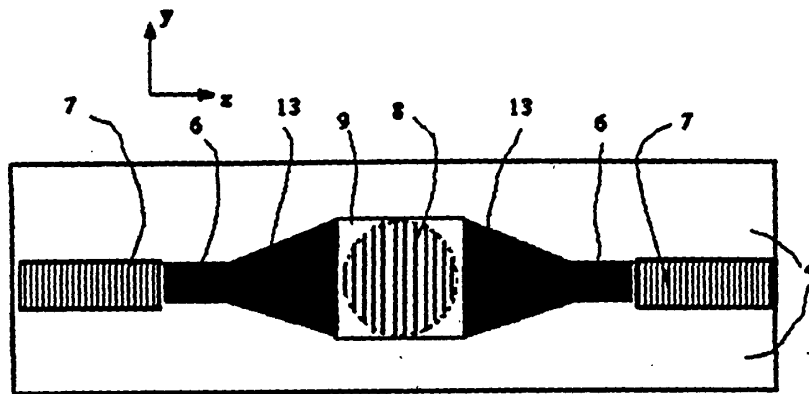


Figure 4A

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 7 of 29

20250323 14:00:00

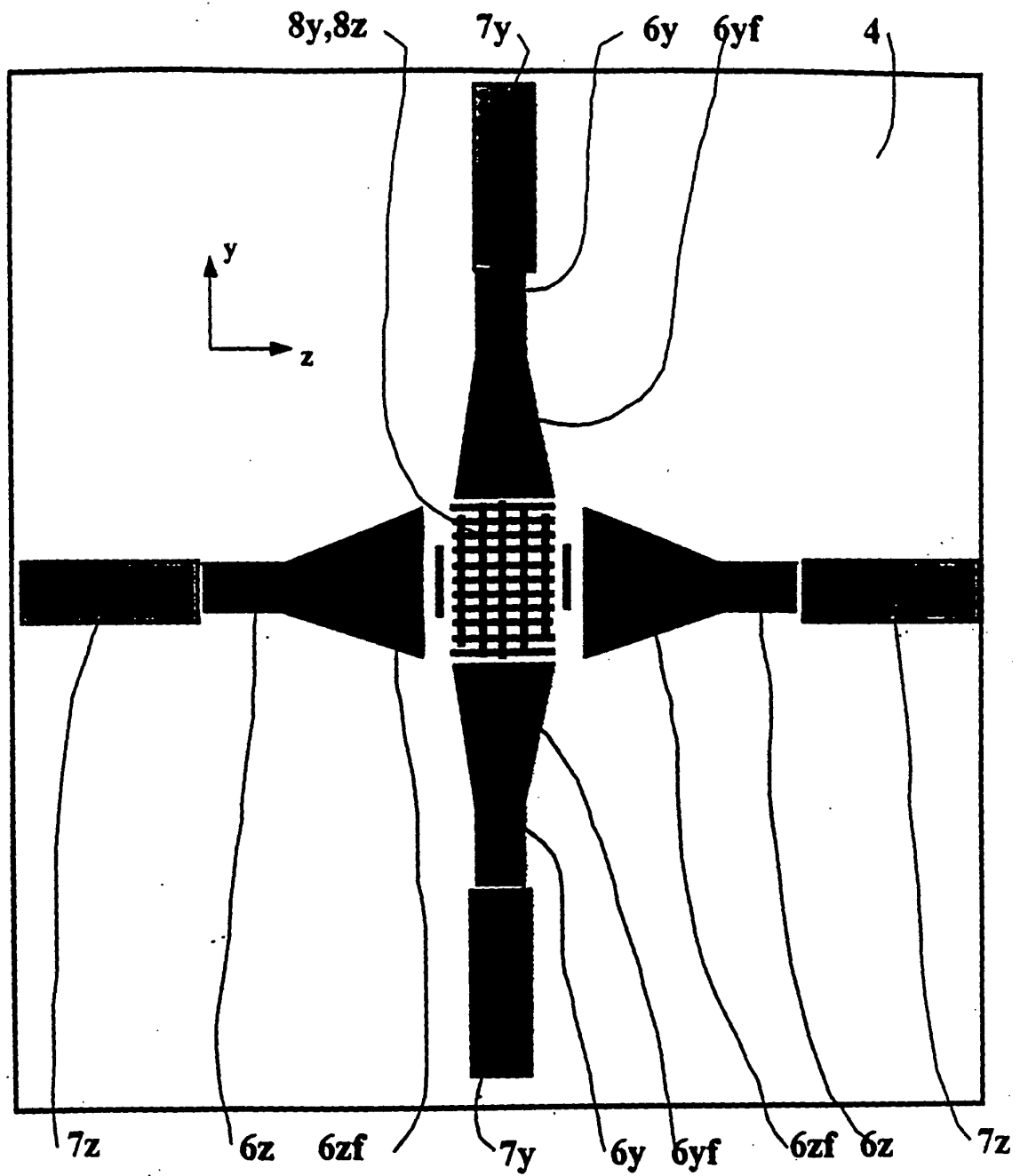


Figure 4B

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 8 of 29

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 10 of 29

10092007 030702

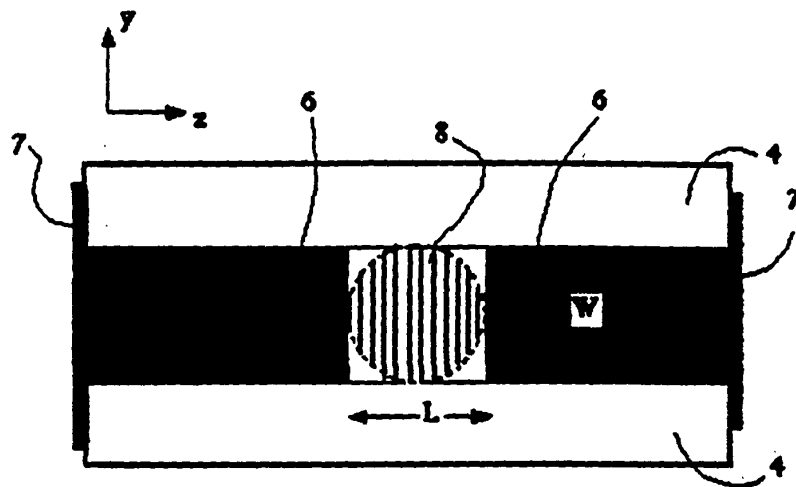


Figure 5C

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 11 of 29

1032867.030703

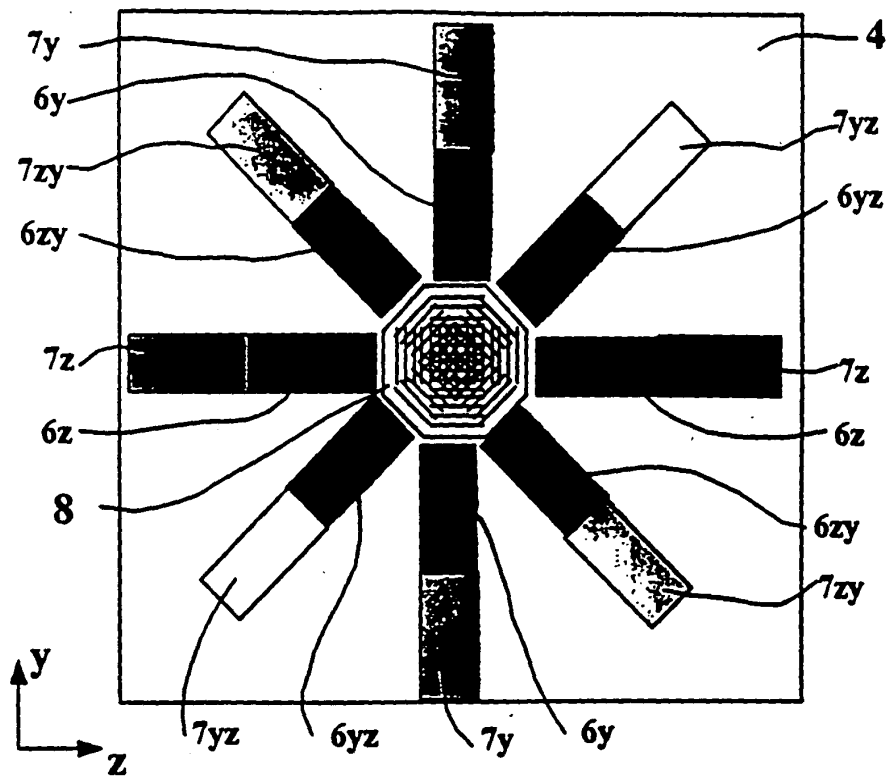


Figure 7A

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 13 of 29

A diagram of a hexagonal lattice structure, likely representing a crystal or a molecular assembly. The lattice is composed of concentric hexagonal rings of atoms or molecules. The central region is filled with a dense network of lines, possibly representing a core or a specific type of interaction. Four interaction fields are indicated by arrows and labels: Λ_z (vertical), Λ_y (horizontal), Λ_{zy} (diagonal), and Λ_{yz} (diagonal).

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 14 of 29

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 15 of 29

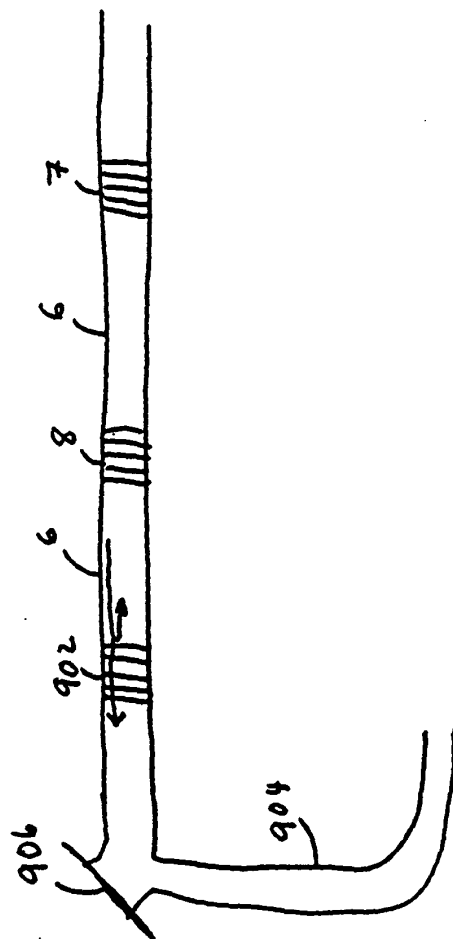


Figure 9

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 16 of 29

20250228

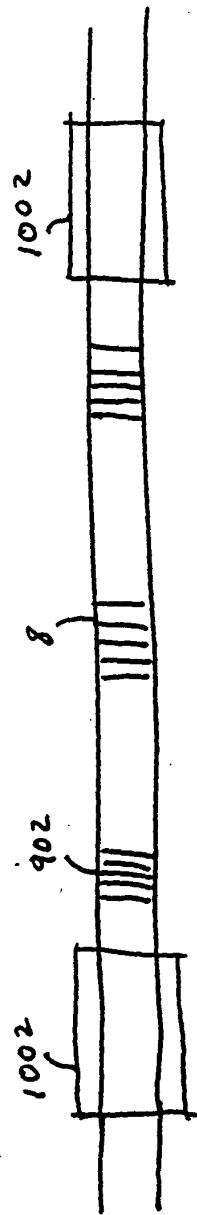


Figure 10

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 17 of 29

62400-203503

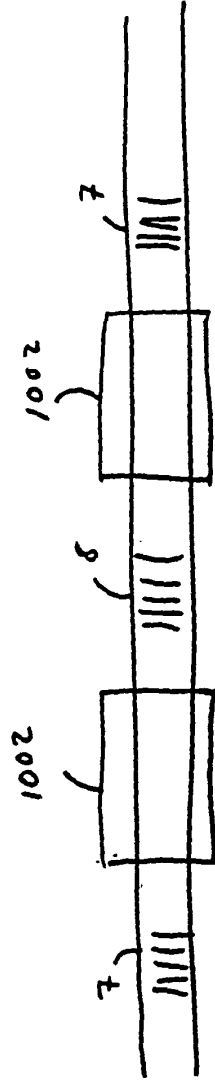


Figure 11

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 18 of 29

20200901 20200901

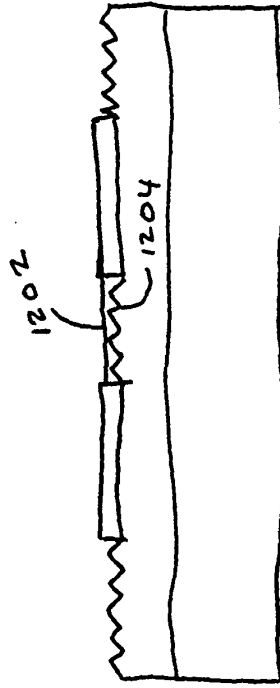


Figure 12

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 19 of 29

1. The first part of the document is a list of names and their corresponding addresses. The names are listed in a column on the left, and the addresses are listed in a column on the right. The names are: John Doe, Jane Smith, Robert Brown, Mary White, and Thomas Green. The addresses are: 123 Main St, 456 Elm St, 789 Oak St, 101 Pine St, and 202 Cedar St.

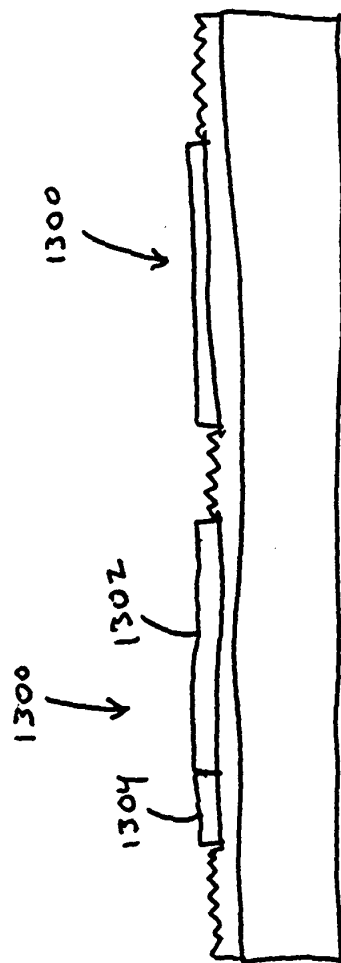


Figure 13

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 20 of 29

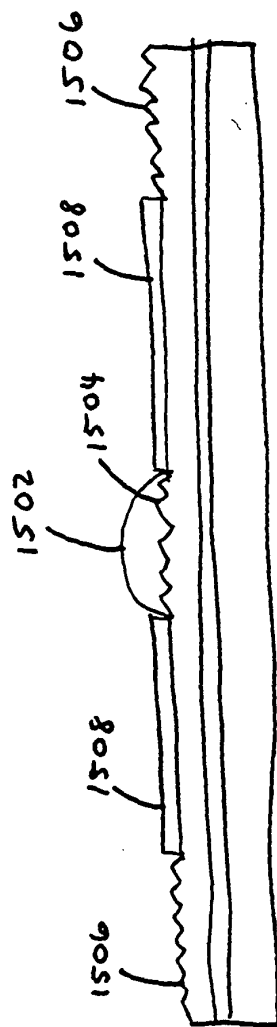


Figure 15

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 22 of 29

1. The first part of the paper is devoted to a general discussion of the problem of the existence of a solution of the system of equations (1) for arbitrary values of the parameters α and β . It is shown that the system has a solution for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied.

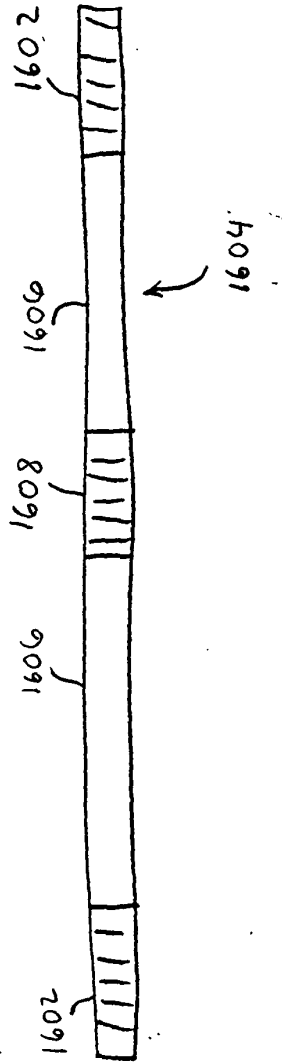


Figure 16

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 23 of 29

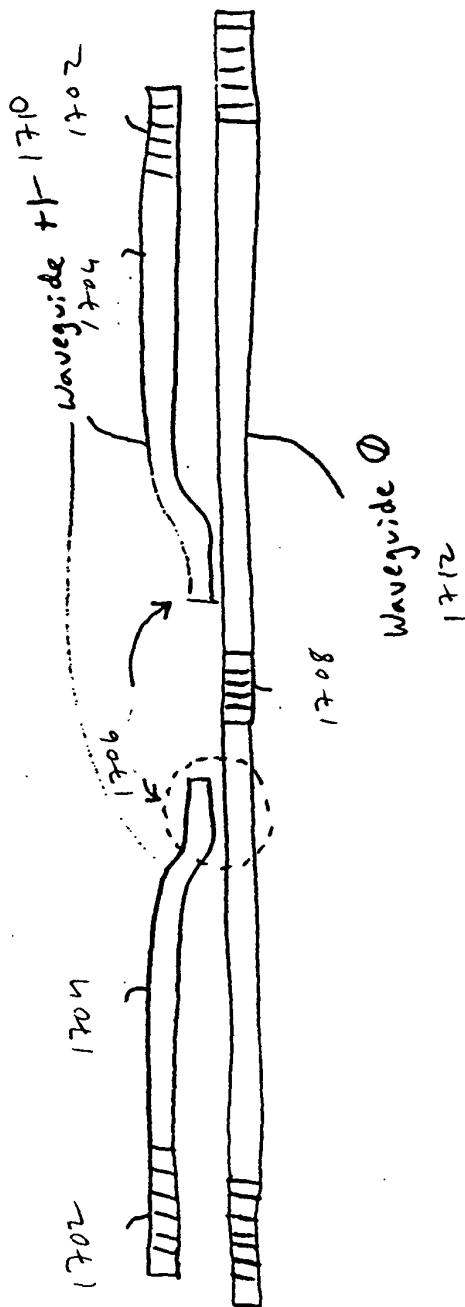


Figure 17

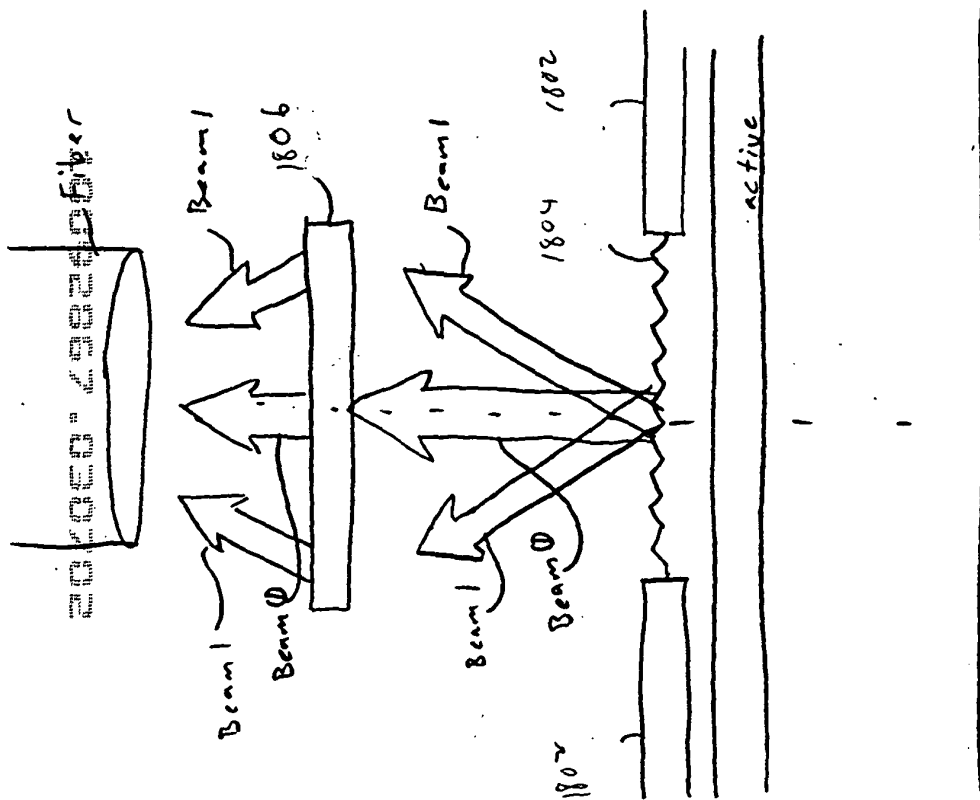


Figure 18

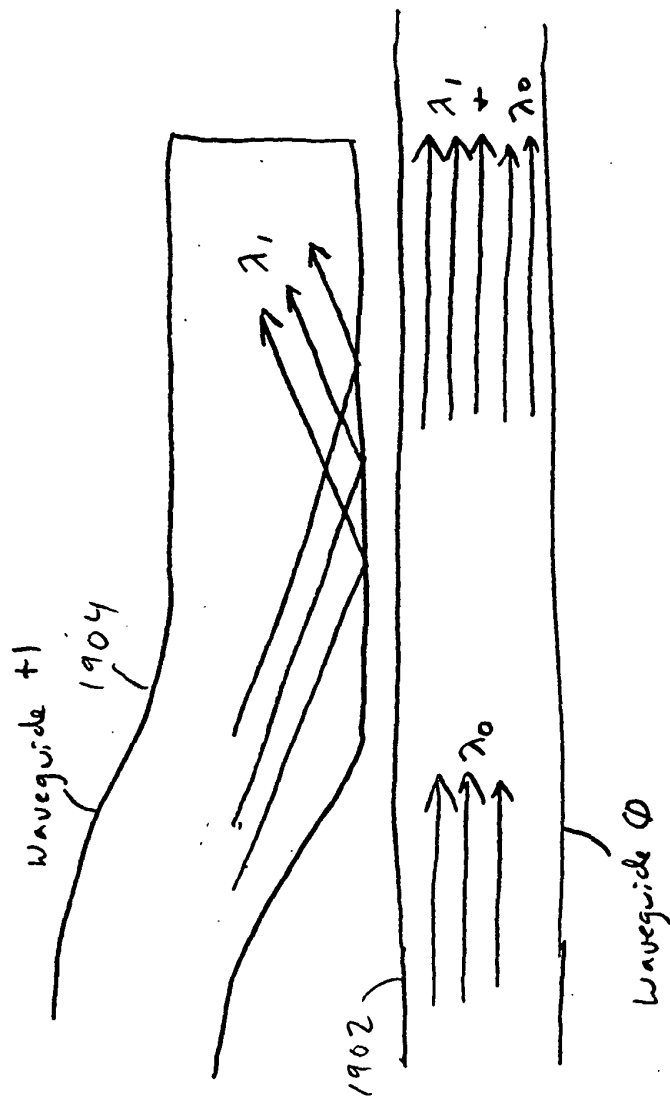


Figure 19A

Evans

BPHOTO.003

Laterally Coupled Waveguides

Page 26 of 29

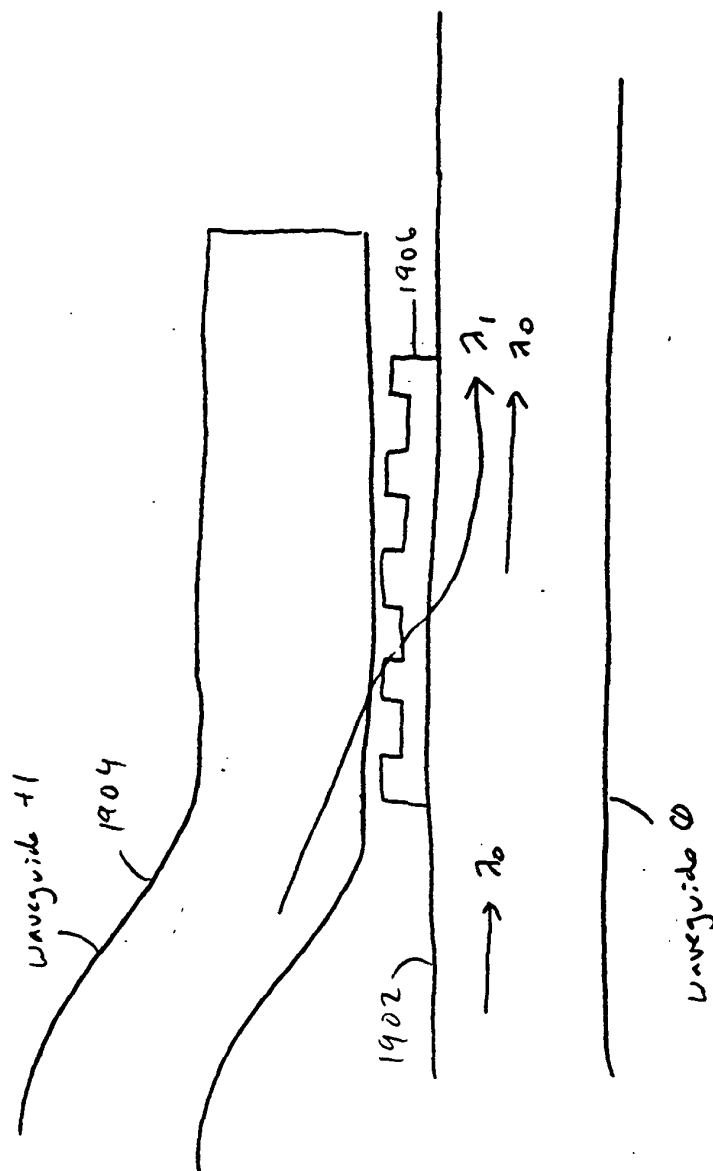


Figure 19B

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 27 of 29

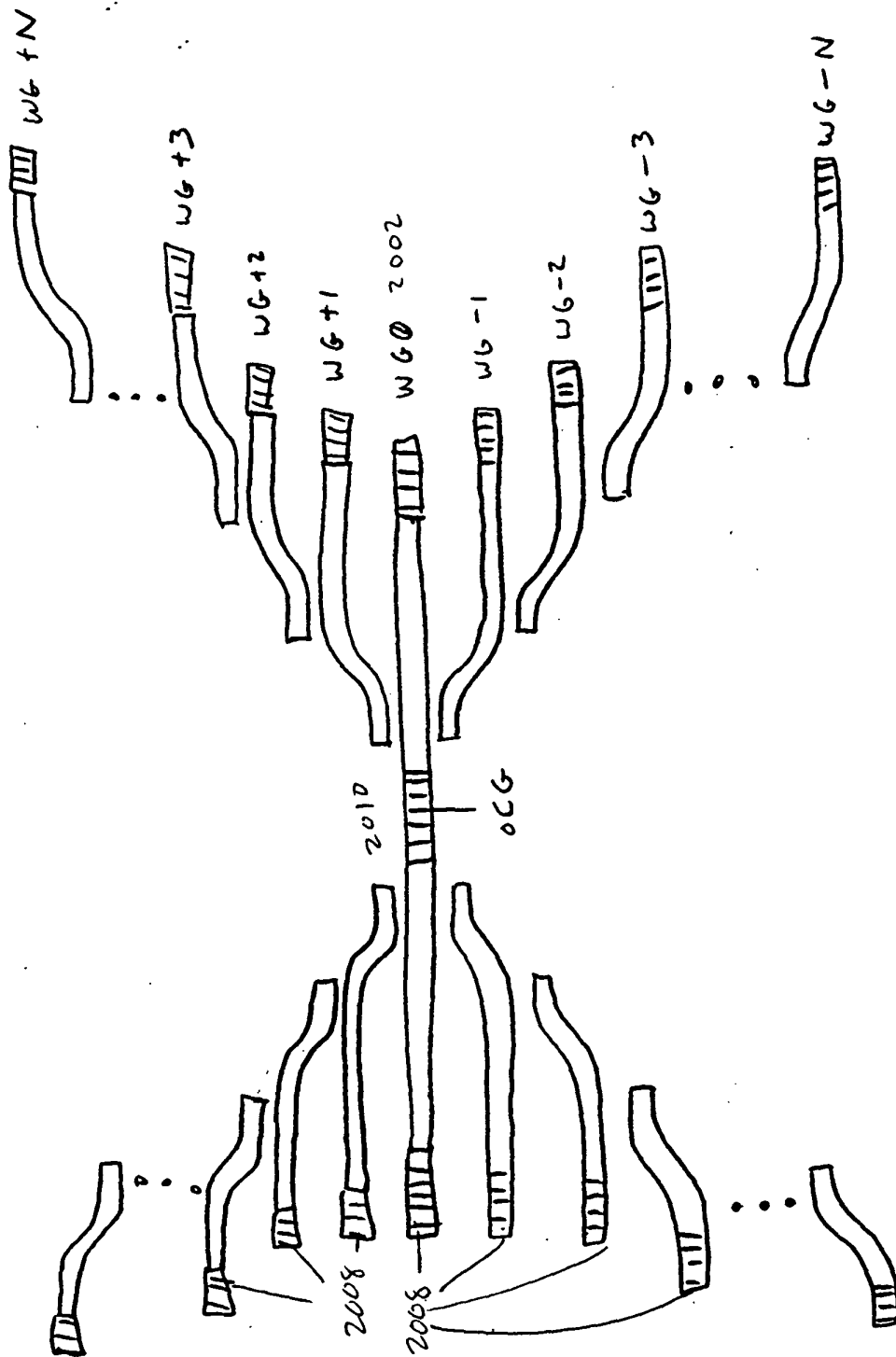


Figure 20

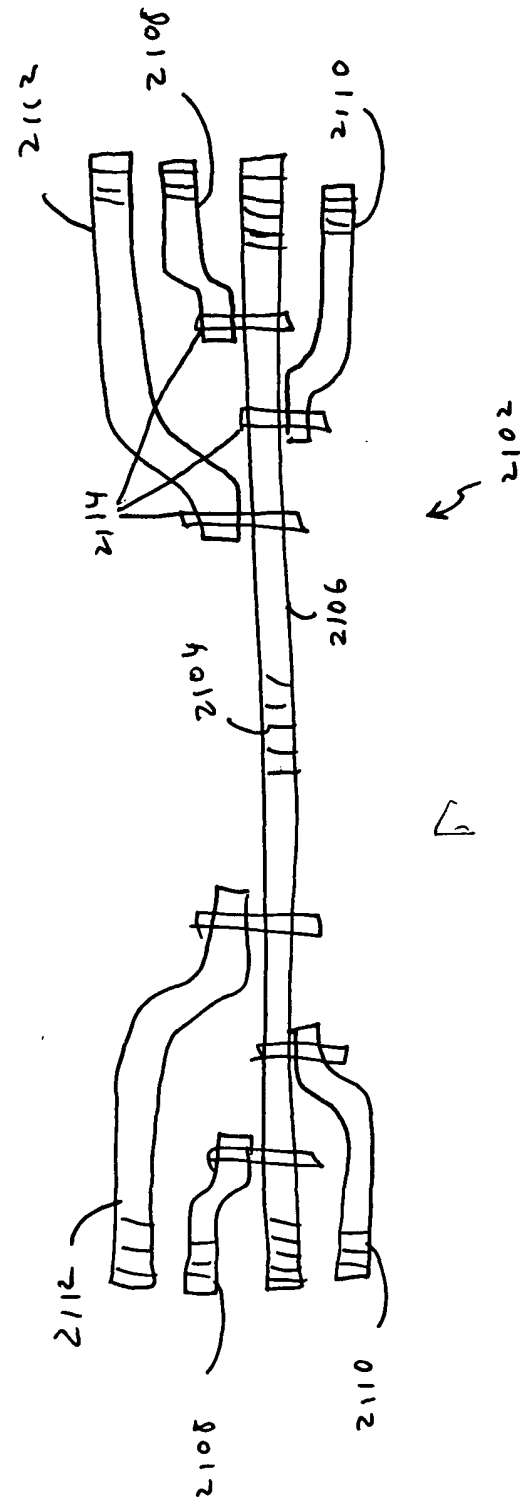


Figure 21

Evans
BPHOTO.003
Laterally Coupled Waveguides
Page 29 of 29